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09/838,695 04/19/2001		Michael Dove	37618/JFO/B600	8988	
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CHRISTIE, PARKER & HALE, LLP PO BOX 7068 PASADENA, CA 91109-7068			SAX, STEV	SAX, STEVEN PAUL	
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•			2174	2174	
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Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No. Applicant(s)						
	09/838,695	DOVE, MICHAEL					
Office Action Summary	Examiner	Art Unit					
	Steven P Sax	2174					
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply							
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above, is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.  - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.  - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).  Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).							
Status							
1) Responsive to communication(s) filed on 16 May 2005 and 11 April 2005.							
· _	2a) This action is <b>FINAL</b> . 2b) This action is non-final.						
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.							
Disposition of Claims							
4) ☐ Claim(s) 1-43 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration.  5) ☐ Claim(s) is/are allowed.  6) ☐ Claim(s) 1-43 is/are rejected.  7) ☐ Claim(s) is/are objected to.  8) ☐ Claim(s) are subject to restriction and/or election requirement.							
Application Papers							
9)☐ The specification is objected to by the Examiner							
10)☐ The drawing(s) filed on is/are: a)☐ acce	pted or b) □\objected to by the E	Examiner.					
Applicant may not request that any objection to the o		• •					
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).  11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
•	ammer. Note the attached Office	Action of form PTO-152.					
Priority under 35 U.S.C. § 119							
<ul> <li>12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).</li> <li>a) All b) Some * c) None of:</li> <li>1. Certified copies of the priority documents have been received.</li> <li>2. Certified copies of the priority documents have been received in Application No</li> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> </ul>							
Attachment(s)							
1) Notice of References Cited (PTO-892)  4) Interview Summary (PTO-413)							
<ul> <li>2) Notice of Draftsperson's Patent Drawing Review (PTO-948)</li> <li>3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)</li> <li>Paper No(s)/Mail Date 4/19/05.</li> </ul>	Paper No(s)/Mail Da	te´. atent Application (PTO-152)					

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## **DETAILED ACTION**

- 1. This application has been examined. The RCE filed 5/16/05 and thus the amendment filed 4/11/05 have been entered.
- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. Claims 1-43 are rejected under 35 U.S.C. 103(a) as being unpatentable over Akatsu et al (6523064) and Brooks (6008809) and Henshaw (6040833).
- 4. Regarding claim 1, Akatsu et al show an apparatus for producing a perceptible representation of data, including: an arbiter (column 6 lines 5-30) selecting a dominant program from among a plurality of programs seeking a master persistence attribute to display data of the program according to a predetermined priority technique (column 6 lines 15-50, column 8 lines 30-60, column 11 lines 25-60), and assigning the master persistence attribute to the dominant program (column 14 lines 10-55, column 15 lines 25-60). Akatsu et al do not specifically state that the dominant program displays data concurrently with other programs while not being obscured by them, but do show displaying data for efficient viewing. Furthermore, Brooks does show displaying multiple

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program windows such that a dominant (active) one displays data concurrently with other windows while not being obstructed by them (abstract, Figures 12, 16, column 5 lines 30-54) to display data for efficient viewing. It would have been obvious to a person with ordinary skill in the art to have the dominant program in Akatsu et al display data concurrently with other programs while not being obscured by them, because it would allow displaying of data for efficient viewing. Neither Akatsu et al nor Brooks specifically show that the dominant program itself overlaps other programs, but Akatsu et al for example do mention indicating priority to a dominant program. Furthermore, Henshaw shows indicating priority to a dominant or currently active program by diving to it within a stack and showing it overlapping those applications whose windows are under its window (Figures 2, 3, 7, column 5 lines 20-55, column 6 lines 15-35). This is done in Henshaw also for efficient viewing of displayed data, which is also taught by Brooks. Thus, it would have been obvious to a person with ordinary skill in the art to have the dominant program overlap other programs in the system suggested by Akatsu et al and Brooks, because it would allow an efficient way to view displayed data, while indicating priority to a dominant window.

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5. Regarding claim 2, the access control table is coupled to the arbiter containing indicia representative of the priority scheme (Akatsu et al column 10 lines 50-64, column 11 lines 10-25).

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6. Regarding claim 3, also coupled to the table is the configuration application program (Akatsu et al column 7 lines 30-40, column 11 lines 28-50).

- 7. Regarding claims 4, the I/O manager coupled with the arbiter communicates display data between the application program and a display (Akatsu et al column 12 lines 12-53).
- 8. Regarding claim 5, a graphics device driver coupled with the I/O manager and display transmits the display data to the display (Akatsu et al column 12 lines 12-53).
- 9. Regarding claim 6, in addition to that mentioned for claim 5, the graphics device driver is coupled with the arbiter (Akatsu et al column 12 lines 12-53).
- 10. Regarding claim 7, the indicia includes a priority (Akatsu et al column 6 lines 5-28. Only one of these need be met to satisfy the claim).
- 11. Regarding claim 8, the arbiter has a content addressable memory that provides the priority scheme (Akatsu et al column 10 lines 50-63).
- 12. Regarding claim 9, a gatekeeper determines selected programs to be granted access to the arbiter (Akatsu et al column 6 lines 30-64, column 14 lines 25-55).

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13. Regarding claim 10, Akatsu et al show a graphic display apparatus having a gatekeeper determining selected ones of a plurality of programs to be granted a key to request a persistence attribute according to a predetermined access scheme (column 6 lines 30-64, column 14 lines 25-55). Akatsu et al do not specifically state that the persistence attribute enables a program upon receipt to display data concurrently with other programs while not being obscured by them, but do show displaying data for efficient viewing. Furthermore, Brooks does show displaying multiple program windows such that a dominant (active) one displays data concurrently with other windows while not being obstructed by them (abstract, Figures 12, 16, column 5 lines 30-54) to display data for efficient viewing. It would have been obvious to a person with ordinary skill in the art to have the persistence attribute enable a program in Akatsu et al to display data concurrently with other programs while not being obscured by them, because it would allow displaying of data for efficient viewing.

- 14. Regarding claim 11, the graphics display driver, coupled with the gatekeeper, couples display data of the selected ones with a display (Akatsu et al column 12 lines 12-53).
- 15. Regarding claim 12, Akatsu et al show the arbiter (column 6 lines 5-30) selecting a dominant program from among a plurality of programs seeking a master persistence attribute to display data of the program according to a predetermined priority technique (column 6 lines 15-50, column 8 lines 30-60, column 11 lines 25-60), and assigning the

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master persistence attribute to the dominant program (column 14 lines 10-55, column 15 lines 25-60).

- 16. Regarding claim 13, the access control table is coupled to the arbiter containing indicia representative of the priority scheme (Akatsu et al column 10 lines 50-64, column 11 lines 10-25).
- 17. Regarding claim 14, the I/O manager is coupled with the gatekeeper and manages graphical data between the selected ones and the display (Akatsu et al column 12 lines 12-53).
- 18. Regarding claim 15, an application manager is coupled with the gatekeeper to prevent unauthorized access to an operating system by the selected ones (Akatsu et al column 6 lines 20-50, column 8 lines 30-50).
- 19. Regarding claim 16, the graphics driver, coupled with the application manager, transmits graphical data to display data on the display (Akatsu et al column 12 lines 12-53).
- 20. Regarding claim 17, a configuration application program, coupled with the gatekeeper, configures the gatekeeper with the predetermined priority scheme (Akatsu et al column 6 lines 15-50, column 10 lines 50-64).

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21. Regarding claim 18, the configuration table, coupled to the gatekeeper, stores indicia representative of the predetermined priority scheme (Akatsu et al column 10

lines 50-64, column 11 lines 10-25).

22. Regarding claim 19, the indicia includes a priority (Akatsu et al column 6 lines 5-

28. Only one of these need be met to satisfy the claim).

23. Claim 20 recites the same features as claim 12 and is rejected for the same

reasons.

24. Regarding claim 21, Akatsu et al show the configuration table, coupled with the

gatekeeper, containing indicia representative with the predetermined priority scheme

(column 10 lines 50-64, column 11 lines 10-25. Only this choice needs to be met to

satisfy the claim as it is recited in alternative form).

25. Regarding claim 22, the configuration application couples with the configuration

table to configure the gatekeeper (Akatsu et al column 12 lines 20-50. Only this need

be shown to satisfy the claim as it is recited in alternative form).

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26. Regarding claims 23, the I/O manager coupled with the arbiter communicates display data between the application program and a display (Akatsu et al column 12 lines 12-53).

- 27. Regarding claim 24, a graphics device driver coupled with the I/O manager and display transmits the display data to the display (Akatsu et al column 12 lines 12-53).
- 28. Regarding claim 26, a graphics device driver coupled with the arbiter transfers the display data to the display (Akatsu et al column 12 lines 12-53).
- 29. Regarding claims 25 and 27, a display buffer is coupled with the graphics display driver (Akatsu et al Figure 2, column 5 lines 1-10, implicit).
- 30. Regarding claim 28, the I/O manager coupled with the graphic display driver communicates display data between the application program and a display (Akatsu et al column 12 lines 12-53).
- 31. Regarding claim 29, the application manager is coupled with the gatekeeper to prevent unauthorized access to an operating system by a program (Akatsu et al column 6 lines 20-50, column 8 lines 30-50).

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32. Regarding claim 30, the indicia includes a priority (Akatsu et al column 6 lines 5-

- 28. Only one of these need be met to satisfy the claim).
- 33. Regarding claim 31, Akatsu et al show the video input receiving the graphical signal and the video output coupled with a display (Figures 6, 7, column 5 lines 1-30), a display controller coupled with the video input signal and selectively transmitting the graphical data signal to the video output (column 5 lines 10-45), an arbiter (column 6 lines 5-30) coupled with the display controller effecting the selectively transmitting by granting a persistence attribute according to a predetermined priority technique to a window for displaying on a display (column 6 lines 15-50, column 8 lines 30-60, column 11 lines 25-60), the display controller transmitting accordingly, wherein the video output writes data to a set of pixel memory locations which are later read by the display (column 5 lines 10-45). Akatsu et al do not specifically state that the window granted the persistence attribute has exclusive access to a portion of the set of pixel memory locations per se, but do mention convenient access of data among plural programs. Furthermore, Brooks shows that a given (active) window does in fact have exclusive access to its portion of the set of pixel memory locations, such that all program windows are conveniently accessed. It would have been obvious to a person with ordinary skill in the art to have the window granted the persistence attribute have exclusive access to a portion of the set of pixel memory locations, because it would allow convenient access of data among plural programs. Neither Akatsu et al nor Brooks specifically mention that the persistence granted window takes the place of another window which would

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have access to the portion of the pixel memory locations, but Akatsu et al for example do mention indicating priority to the persistence granted window. Furthermore, Henshaw shows indicating priority to a current persistence/active granted program by diving to it within a stack and showing it taking the place of other windows which would have access to the portion of pixel memory locations which are under its window (Figures 2, 3, 7, column 5 lines 20-55, column 6 lines 15-35). This is done in Henshaw also for efficient viewing of displayed data, which is also taught by Brooks. Thus, it would have been obvious to a person with ordinary skill in the art to have the persistence granted program take the place of other windows which would otherwise have access to the portion of pixel memory locations, in the system suggested by Akatsu et al and Brooks, because it would allow an efficient way to view displayed data, while indicating priority to a persistence granted program.

- 34. Regarding claim 32, Akatsu et al show the CPU interface coupled to the CPU receiving display control signals and the arbiter being responsive thereto (column 5 lines 1-20, column 6 lines 5-23).
- 35. Regarding claim 33, the CPU includes the gatekeeper coupled with the arbiter and transmitting to it the scheme (Akatsu et al column 11 lines 25-60).

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36. Regarding claim 34, the CPU includes the gatekeeper coupled with the arbiter and selecting display control signals having access to the arbiter (Akatsu et al column 11 lines 25-60).

- 37. Regarding claim 35, the access control table is coupled to the arbiter and receiving indicia representative of the priority scheme (Akatsu et al column 10 lines 50-64, column 11 lines 10-25).
- 38. Regarding claim 36, the indicia includes a priority (Akatsu et al column 6 lines 5-28. Only one of these need be met to satisfy the claim).
- 39. Regarding claim 37, Akatsu et al show: requesting the master persistence attribute from a gatekeeper (column 6 lines 30-64, column 14 lines 25-55), assigning a set of priority rules to the gatekeeper via a configuration application program (column 8 lines 30-60, column 11 lines 25-60), the gatekeeper granting keys to the selected dominant application programs allowing access to an arbiter (column 6 lines 5-30), the arbiter examing an arbiter access control table storing the predetermined priority scheme (Akatsu et al column 10 lines 50-64, column 11 lines 10-25), the arbiter assigning the persistence attribute to the one of the plurality of dominant application programs granting access to a display window (column 12 lines 27-62, column 8 lines 30-60). ). Akatsu et al do not specifically state that the dominant program displays data concurrently with other programs while not being obscured by them, but do show

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displaying data for efficient viewing. Furthermore, Brooks does show displaying multiple program windows such that a dominant (active) one displays data concurrently with other windows while not being obstructed by them (abstract, Figures 12, 16, column 5 lines 30-54) to display data for efficient viewing. It would have been obvious to a person with ordinary skill in the art to have the dominant program in Akatsu et al display data concurrently with other programs while not being obscured by them, because it would allow displaying of data for efficient viewing. Neither Akatsu et al nor Brooks specifically show that the dominant program itself overlaps other programs, but Akatsu et al for example do mention indicating priority to a dominant program. Furthermore: Henshaw shows indicating priority to a dominant or currently active program by diving to it within a stack and showing it overlapping those applications whose windows are under its window (Figures 2, 3, 7, column 5 lines 20-55, column 6 lines 15-35). This is done in Henshaw also for efficient viewing of displayed data, which is also taught by Brooks. Thus, it would have been obvious to a person with ordinary skill in the art to have the dominant program overlap other programs in the system suggested by Akatsu et al and Brooks, because it would allow an efficient way to view displayed data, while indicating priority to a dominant window.

40. Claim 38 recites the same features as claim 12 and is rejected for the same reasons.

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41. Regarding claim 39, an arbiter examines an arbiter access control table storing the predetermined priority scheme (Akatsu et al column 10 lines 50-64, column 11 lines 10-25).

- 42. Regarding claim 40, a set of access rules is assigned to the gatekeeper and a set of priority rules is assigned to the arbiter, via the configuration application program (Akatsu et al column 7 lines 30-40, column 11 lines 28-50).
- 43. Claim 41 recites the same features as claim 37 and is rejected for the same reasons.
- 44. Regarding claim 42, note that only one device of rendering need be shown.

  Akatsu et al use the computer (for example Figure 2). This thus recites the same features as claim 1 and is rejected for the same reasons.
- 45. Regarding claim 43, the claim recites that the medium is "one of... a wire-based channel" and the wire-based channel is shown in Akatsu et al (column 5 lines 1-30.
- 46. Applicant's arguments with respect to the claims have been considered but are moot in view of the new ground(s) of rejection. Applicant focuses on the added features brought in by the amendment, and this is rejected based on the new grounds of rejection.

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47. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Steven P Sax whose telephone number is (571) 272-4072. The examiner can normally be reached on Monday thru Friday, 8:30 AM - 5:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kristine Kincaid can be reached on (571) 272-4063. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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Hanna Carlotte Carlot